

CLAIMS

1. A method of screening for a compound having an antifungal activity, wherein the method comprises the steps of:
 - 5 (1) contacting a test sample with an overexpressed protein encoded by the GWT1 gene;
 - (2) detecting GlcN-(acyl)PI; and
 - (3) selecting the test sample that decreases GlcN-(acyl)PI.
2. The method of claim 1, wherein the GWT1 gene is any one of the following:
 - 10 (a) a DNA encoding a protein comprising the amino acid sequence of SEQ ID NO: 2, 4, 6, 8, 10, or 14;
 - (b) a DNA comprising the nucleotide sequence of SEQ ID NO: 1, 3, 5, 7, 9, 11, 12, or 13;
 - (c) a DNA hybridizing to the DNA comprising the nucleotide sequence of SEQ ID NO:
15 1, 3, 5, 7, 9, 11, 12, or 13 under stringent conditions; and
 - (d) a DNA encoding a protein comprising the amino acid sequence of SEQ ID NO: 2, 4, 6, 8, 10, or 14, wherein one or more amino acids have been added, deleted, substituted, and/or inserted.
- 20 3. The method of claim 1 or 2, wherein the step of detecting the acylated GPI is thin-layer chromatography.
4. The method of any one of claims 1 to 3, wherein the method further comprises a step 4, of
25 determining whether the selected test sample inhibits the process of transporting a GPI-anchored protein to a fungal cell wall, whether the test sample inhibits the expression of a GPI-anchored protein on a fungal cell surface, or whether the test sample inhibits the proliferation of a fungi.